



RE: East Liverpool Water Plant met data question
Downey, Phil to: Jaime Wagner
 Cc: Michelle Colledge

01/05/2012 03:22 PM

Basically, a lot of the 2006 data was no good, we had problems with the MET station in the beginning, so if you want I can try to get explanation for the flags but I've attached the txt file from 2006 so you can see where the data problems were.

-----Original Message-----

From: Jaime Wagner [
 mailto:Wagner.Jaime@epamail.epa.gov]
 Sent: Thursday, January 05, 2012 4:17 PM
 To: Downey, Phil
 Subject: Fw: East Liverpool Water Plant met data question

Oh, and I should've also mentioned....there are other codes in there, too--and I don't know what they mean, either. I think I just focused on SP because that's the one I saw first.

Thanks (again!!),
 Jaime

----- Forwarded by Jaime Wagner/R5/USEPA/US on
 01/05/2012 03:16 PM -----

From: Jaime Wagner/R5/USEPA/US
 To: "Downey, Phil"
 <Phil.Downey@epa.state.oh.us>
 Date: 01/05/2012 02:53 PM
 Subject: RE: East Liverpool Water Plant met data question

Thanks, Phil! But yeah, I should've thought to send you the files.
 Sorry about that!

I'm only attaching one file, but the same code (SP) shows up in all the files from 2006-2010. If you need all of them, I can send, but thought this would suffice as an example.

Thanks again!
 Jaime

[attachment "elmet_2006.csv" deleted by Jaime Wagner/R5/USEPA/US]

From: "Downey, Phil"
 <Phil.Downey@epa.state.oh.us>
 To: Jaime Wagner/R5/USEPA/US@EPA
 Date: 01/05/2012 02:47 PM
 Subject: RE: East Liverpool Water Plant met

data question

Can you send me the data you are talking about, I was scanning through and I did not see them? I know there was some problem months, so that could be it, but if you send me the file(s) you are referring to I can better say.

-----Original Message-----

From: Jaime Wagner [mailto:Wagner.Jaime@epamail.epa.gov]
Sent: Thursday, January 05, 2012 3:25 PM
To: Downey, Phil
Subject: East Liverpool Water Plant met data question

Hi Phil,


Michelle Colledge sent me the onsite met data from the water plant in East Liverpool for years 2006-2010, and I noticed there are some flags in the data that I can't figure out. I see a lot of hours marked as SP, but I don't know what that means. Can you enlighten me? I'd appreciate it.

Thanks! Happy new year!
Jaime



EL Met Data May_Dec 2006.txt



RE: Here's what I have from the WP station 
 Michelle Colledge to: Downey, Phil

01/05/2012 02:55 PM

It's a qualifier in the met file you sent (in excel)

Michelle A. Colledge MPH, PhD
 CDR, U.S. Public Health Service
 Agency for Toxic Substances and Disease Registry/NCEH/CDC, Region 5
 77 W. Jackson Blvd., Room 413
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 Chicago, Illinois 60604
 Tel: 312-886-1462
 Fax: 312-886-6066

"Downey, Phil"

Ok, sorry, could not find what you were referring...

01/05/2012 02:45:26 PM

From: "Downey, Phil" <Phil.Downey@epa.state.oh.us>
 To: Michelle Colledge/R5/USEPA/US@EPA
 Date: 01/05/2012 02:45 PM
 Subject: RE: Here's what I have from the WP station

Ok, sorry, could not find what you were referring to. Where did you see that?
 The "SP"

-----Original Message-----

From: Michelle Colledge [mailto:Colledge.Michelle@epamail.epa.gov]
 Sent: Thursday, January 05, 2012 2:44 PM
 To: Downey, Phil
 Subject: Fw: Here's what I have from the WP station

Phil, do you know what the qualifier in the E. Liverpool met data is that is
 "SP"? (see below)

Michelle A. Colledge MPH, PhD
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----- Forwarded by Michelle Colledge/R5/USEPA/US on 01/05/2012 01:43 PM

From: Jaime Wagner/R5/USEPA/US
 To: Michelle Colledge/R5/USEPA/US@EPA
 Date: 01/05/2012 01:40 PM
 Subject: Re: Here's what I have from the WP station

Hi Michelle,

There are some flags in the onsite data: SP. Any idea what those mean?

Thanks!
Jaime

From: Michelle Colledge/R5/USEPA/US
To: Jaime Wagner/R5/USEPA/US@EPA
Date: 12/06/2011 12:45 PM
Subject: Here's what I have from the WP station

[attachment "elmet_2006.csv" deleted by Jaime Wagner/R5/USEPA/US] [attachment
"elmet_2007.csv" deleted by Jaime Wagner/R5/USEPA/US] [attachment
"elmet_2008.csv" deleted by Jaime Wagner/R5/USEPA/US] [attachment "2009 Water
plant WR Plot input.xls" deleted by Jaime Wagner/R5/USEPA/US] [attachment
"2008 Wind Rose Input File.xls" deleted by Jaime Wagner/R5/USEPA/US]
[attachment "elmet_Jan thru Dec 2010.xls"
deleted by Jaime Wagner/R5/USEPA/US] [attachment "E Liverpool MET data through
July 2011.xlsx" deleted by Jaime Wagner/R5/USEPA/US]

OK-I have data from the WP monitor from May 2006 through July 2011. I
processed 2008 and 2009 only (obviously). There's your 5 years. I can help
create a master file if you want. The nice thing is that all the observations
are on the hour. :-)

Michelle

Michelle A. Colledge MPH, PhD
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RE: East Liverpool follow-up question - run through Jan. 28th (PM2.5, PM10, TSP metals) 📧

Motria Caudill to: Machuga, Darren, Marta Fuoco, Jaime
Wagner, Michelle Colledge

01/09/2012 10:19 AM

Cc: "Princic, Bob", "Fasko, Ed"
This message is digitally signed.

Great. Thanks Darren!

"Machuga, Darren"	Motria, I will continue to sample at the Water Pl...	01/09/2012 09:55:19 AM
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From: "Machuga, Darren" <Darren.Machuga@epa.state.oh.us>
To: Motria Caudill/R5/USEPA/US@EPA
Cc: "Princic, Bob" <bob.princic@epa.state.oh.us>, "Fasko, Ed" <Ed.Fasko@epa.state.oh.us>, "Julie Swift (Julie.Swift@erg.com)" <Julie.Swift@erg.com>
Date: 01/09/2012 09:55 AM
Subject: RE: East Liverpool follow-up question - run through Jan. 28th

Motria,

I will continue to sample at the Water Plant through January to assure that there are 36 samples for each monitor. If a sample is missed due to a monitor malfunction, I will let you know and extend the sampling until the appropriate number of samples are collected.

Darren

-----Original Message-----

From: Motria Caudill [mailto:Caudill.Motria@epamail.epa.gov]
Sent: Thursday, January 05, 2012 4:26 PM
To: Machuga, Darren
Subject: Fw: East Liverpool follow-up question - run through Jan. 28th

Hi Darren - per Mike's message below, we request that you keep things going for a few more weeks so you'll have 36 samples per size fraction. Please keep me in the loop in case there are any invalidated samples or other hiccups. Thanks!

----- Forwarded by Motria Caudill/R5/USEPA/US on 01/05/2012 03:21 PM -----

From: Mike Jones/RTP/USEPA/US
To: Motria Caudill/R5/USEPA/US@EPA
Cc: Julie.Swift@erg.com
Date: 01/05/2012 11:45 AM
Subject: RE: East Liverpool follow-up question - October PM10
Partisol ETV data

Sure, once 36 samples for each size fraction have been achieved (which per Julie is January 22 for PM 10 and January 28 for PM 2.5 and TSP).

Michael N. Jones

National Air Toxics Ambient Monitoring Program Office of Air Quality Planning
and Standards US Environmental Protection Agency

Voice: (919) 541-0528

Fax: (919) 685-3260

jones.mike@epa.gov



Re: Fw: Data Update 
George Bollweg to: Michelle Colledge

04/05/2012 09:43 AM

Thanks Michelle - will do

Michelle Colledge Thanks, George. I'll be calling in from home, as I...

04/04/2012 12:43:22 PM

From: Michelle Colledge/R5/USEPA/US
To: George Bollweg/R5/USEPA/US@EPA
Date: 04/04/2012 12:43 PM
Subject: Re: Fw: Data Update

Thanks, George. I'll be calling in from home, as I'm taking next week off to do things at my house. Please remind Rosemarie to call me if I'm not on the phone at 9:30. (b) (6)

Thx

Michelle A. Colledge MPH, PhD
CDR, U.S. Public Health Service
Agency for Toxic Substances and Disease Registry/NCEH/CDC, Region 5
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George Bollweg Hi Michelle - FYI I spoke with Rosemarie today i...

04/04/2012 11:50:17 AM

Rosemarie Bowler Hi George, if you want to be included in our conf...

04/03/2012 10:52:45 AM



Re: Fw: Manganese Background 
Michelle Colledge to: Jaime Wagner

03/29/2012 07:35 AM

we can use the tox profile. just wanted to ensure it was the newest info. thanks :-)

Michelle A. Colledge MPH, PhD
 CDR, U.S. Public Health Service
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Jaime Wagner

I tried to find anything newer that what is referen...

03/28/2012 02:43:28 PM

From: Jaime Wagner/R5/USEPA/US
 To: Michelle Colledge/R5/USEPA/US@EPA
 Date: 03/28/2012 02:43 PM
 Subject: Fw: Manganese Background

I tried to find anything newer that what is referenced here, and I didn't find anything. Most things were notably older. I'm not sure how exhaustive to be, but I tried googling several different phrases and got a lot of the same stuff over and over again, but none was newer than this.

What next?

----- Forwarded by Jaime Wagner/R5/USEPA/US on 03/27/2012 03:53 PM -----

From: Michelle Colledge/R5/USEPA/US
 To: Jaime Wagner/R5/USEPA/US@EPA
 Date: 03/26/2012 03:43 PM
 Subject: Manganese Background

Here is what our tox profile says-it's not too old, but maybe poke around and see if there's anything newer to add to the citation:

Background levels of manganese in the atmosphere vary widely depending on the proximity of point sources, such as ferroalloy production facilities, coke ovens, and power plants. The estimated average background concentration of manganese in urban areas is approximately 40 ng/m³, based on measurements obtained in 102 U.S. cities (EPA 2003a; WHO 2004b). Concentrations near source dominated areas were reported to range from 220 to 300 ng/m³ (WHO 2004b) and rural/remote levels are typically under 10 ng/m³ (Sweet et al. 1993). Manganese occurs naturally in surface water and groundwater. A median dissolved manganese concentration of 24 µg/L in samples from 286 U.S. rivers and streams was reported (Smith et al. 1987). Natural concentrations of manganese in seawater

**Re: Mn-air Marietta: respirable or total particulate****Steve Machemer** to: Michelle Colledge

03/07/2012 01:42 PM

History:

This message has been replied to.

Hi Michelle,

In the Marietta data set, the % of Mn-bearing particles that are < PM10 out of all Mn-bearing particles documented = **83 %** (< 10 um aerodynamic diameter)

Steve

Michelle Colledge

Steve-did you ever calculate the % of Mn in Mari...

03/07/2012 11:05:37 AM

From: Michelle Colledge/R5/USEPA/US
 To: Steve Machemer/NEIC/USEPA/US@EPA
 Cc: Theresa Hosick/NEIC/USEPA/US@EPA
 Date: 03/07/2012 11:05 AM
 Subject: Re: Mn-air Marietta: respirable or total particulate

Steve-did you ever calculate the % of Mn in Marietta that is less than PM10? (see email below). Ironically, as we draft the results of the neurological studies for this and E. Liverpool, this is now important!

Please call my cell phone to discuss (b) (6). I don't have your office # with me and I'm in San Francisco with the research team, holed up and working on this.

Michelle A. Colledge MPH, PhD
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-----Steve Machemer/NEIC/USEPA/US wrote: -----

To: Michelle Colledge/R5/USEPA/US@EPA
 From: Steve Machemer/NEIC/USEPA/US
 Date: 07/20/2011 01:09AM
 Cc: Theresa Hosick/NEIC/USEPA/US@EPA
 Subject: Re: Mn-air Marietta: respirable or total particulate

Hi Michelle,

Our Marietta report of July 2010 (NEICVP0591E06) indicated in a summary table that the **median** aerodynamic diameter of TSP Mn particles was estimated at 3.85 to 4.06 um. So, over half of the ambient Mn particles documented were less than PM 5. It's up to the Region (Bill), if our report gets released (We don't mind).

A quick scan of the original data suggests that around 90% of the Mn particles might be <PM 10. It shouldn't be too difficult to calculate the percent estimate for <PM 10. I'll try to set that time aside this week.

It seems I owe you a call anyway.

Steve



RE: East Liverpool, water plant, SAT metals data ?

Diane McClure, Ed Fasko, Misty Koletich, Paul

Julie Swift to: Koval, Phil Downey, Randy Hock, Rick Smith, Tom
Kalman, Motria Caudill

02/28/2012 06:59 AM

Cc: "Bob Princic", "Darren Machuga", Michelle Colledge

Phil - these values are pretty close (majority w/in 30% RPD).
How does your lab prepare and analyze the samples? Thanks,
Julie

>>> On 2/27/2012 at 9:48 AM, "Downey, Phil"

<Phil.Downey@epa.state.oh.us> wrote:

I added a sheet to July and August to show the comparison between
ERG TSP data and Ohio EPA's lab for the comparable dates.

The ERG comp OEPA tab.

-----Original Message-----

From: Caudill.Motria@epamail.epa.gov [

mailto:Caudill.Motria@epamail.epa.gov]

Sent: Monday, November 28, 2011 12:52 PM

To: McClure, Diane; Fasko, Ed; Koletich, Misty; Koval, Paul; Downey,
Phil; Hock, Randy; Smith, Rick; Kalman, Tom

Cc: julie.swift@erg.com

Subject: Fw: East Liverpool, water plant, SAT metals data?

Thank you Julie!!

Ohio EPA folks - full datasets attached, July-August.

----- Forwarded by Motria Caudill/R5/USEPA/US on 11/28/2011 11:49
AM

From:"Julie Swift" <Julie.Swift@erg.com>

To:Motria Caudill/R5/USEPA/US@EPA

Date:11/28/2011 10:50 AM

Subject:Re: East Liverpool, water plant, SAT metals data?

Sure, Motria. We received the September samples mid-Month, so we
won't report these until mid-December. Hopefully we will have the
Xact PM10 metals ready as well soon.

Please let me know if you have any questions! Julie

>>> On 11/28/2011 at 11:45 AM, <Caudill.Motria@epamail.epa.gov>
wrote:

Hi Julie - Could you please send (re-send?) any available 2011

metals

data TSP, PM10, and PM2.5 for the water plant site #39-029-0020?

only

seem to have OAQPS's screening reports, not your version of data

files.

Thanks!

(See attached file: lcoh jul 11 metals.xls)(See attached file: lcoh jul
11 metals.pdf)(See attached file: lcoh aug 11 metals.xls)(See
attached
file: lcoh aug 11 metals.pdf)



RE: East Liverpool, water plant, SAT metals data ?

Downey, Phil to: , Koletich, Misty , Koval, Paul, Hock,
Randy, Smith, Rick , Kalman, Tom

02/27/2012 08:49 AM

Cc: "julie.swift@erg.com", Michelle Colledge, "Machuga, Darren"
 , "Princic, Bob"

I added a sheet to July and August to show the comparison between ERG TSP data and Ohio EPA's lab for the comparable dates.

The ERG comp OEPA tab.

-----Original Message-----

From: Caudill.Motria@epamail.epa.gov [mailto:Caudill.Motria@epamail.epa.gov]
Sent: Monday, November 28, 2011 12:52 PM
To: McClure, Diane; Fasko, Ed; Koletich, Misty; Koval, Paul; Downey, Phil; Hock, Randy; Smith, Rick; Kalman, Tom
Cc: julie.swift@erg.com
Subject: Fw: East Liverpool, water plant, SAT metals data?

Thank you Julie!!

Ohio EPA folks - full datasets attached, July-August.

----- Forwarded by Motria Caudill/R5/USEPA/US on 11/28/2011 11:49 AM -----

From: "Julie Swift" <Julie.Swift@erg.com>
To: Motria Caudill/R5/USEPA/US@EPA
Date: 11/28/2011 10:50 AM
Subject: Re: East Liverpool, water plant, SAT metals data?

Sure, Motria. We received the September samples mid-Month, so we won't report these until mid-December. Hopefully we will have the Xact PM10 metals ready as well soon.

Please let me know if you have any questions! Julie

>>> On 11/28/2011 at 11:45 AM,
<Caudill.Motria@epamail.epa.gov> wrote:

Hi Julie - Could you please send (re-send?) any available 2011 metals data TSP, PM10, and PM2.5 for the water plant site #39-029-0020? I

only
seem to have OAQPS's screening reports, not your
version of data
files.
Thanks!

(See attached file: lcoh jul 11 metals.xls) (See
attached file: lcoh jul
11 metals.pdf) (See attached file: lcoh aug 11
metals.xls) (See attached
file: lcoh aug 11 metals.pdf)



lcoh jul 11 metals.xls lcoh aug 11 metals.xls